



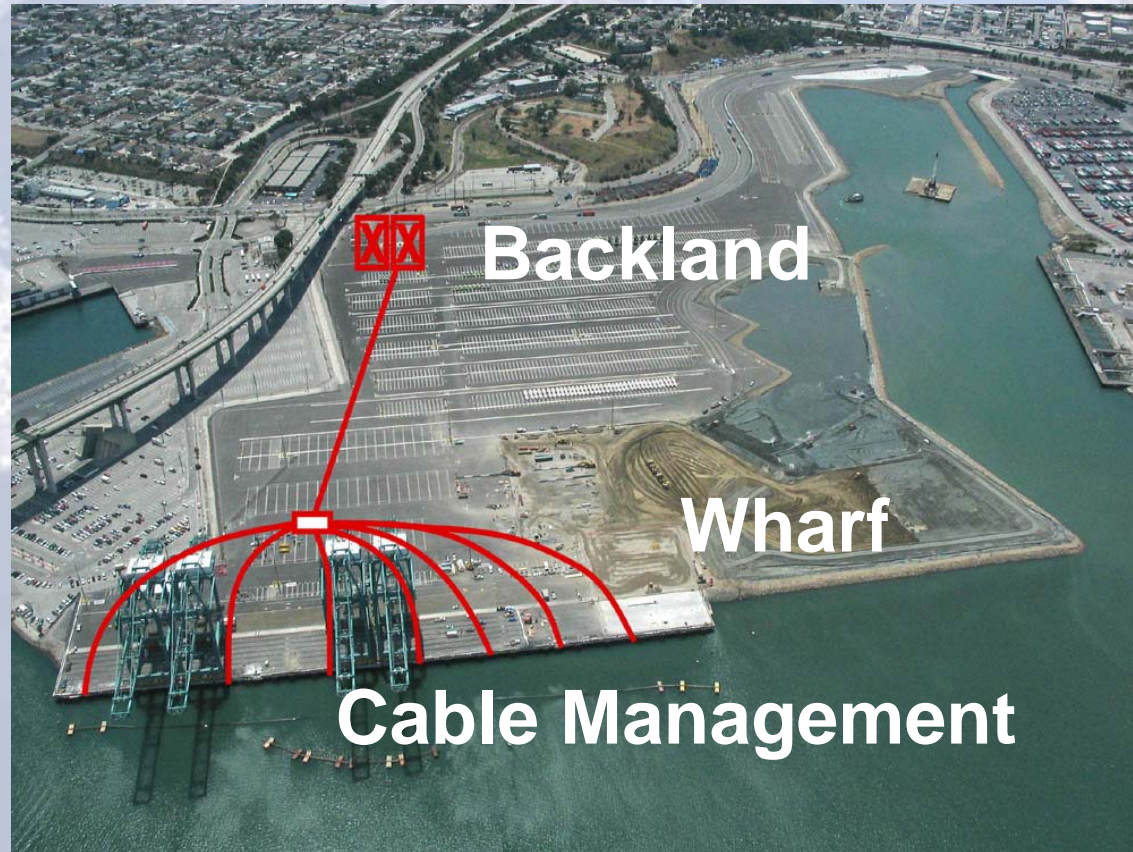
Alternative Maritime Power at the Port of Los Angeles



Berth 100



Port of Los Angeles Berth 100



- 34.5 KV in Trench, Street to Substation
- POLA 6.6 KV Substation on Terminal



AMP Design & Construction

- LADWP Design & Construction
Utility Transformer Station
- POLA Design & Construction
Backland, Trenching, Wharf & Cable
Management system





AMP Design & Construction

- New Facility
- Retrofitting an in-use Terminal
 - Phased Construction
 - Contractor Accessibility
 - Terminal Security & Safety Plans
 - Storage of Materials





AMP – Backland



Utility Transformer
34.5/6.6 kV, 7.5 MVA

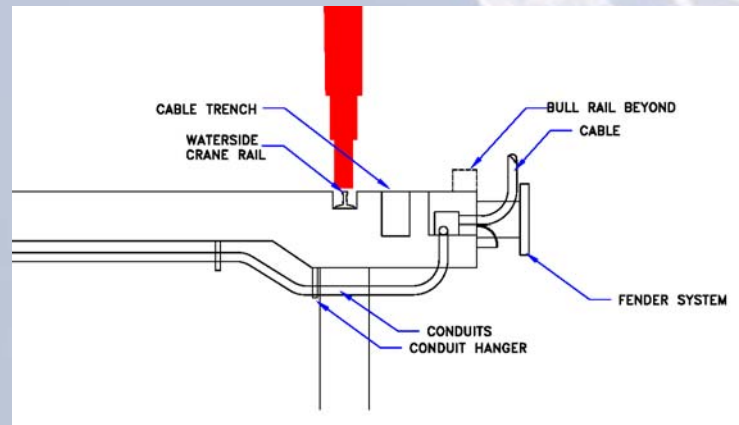


Main & Metering
Equipment (6.6 kV)

AMP Trenching & Switchgear



AMP Wharf Receptacle Box

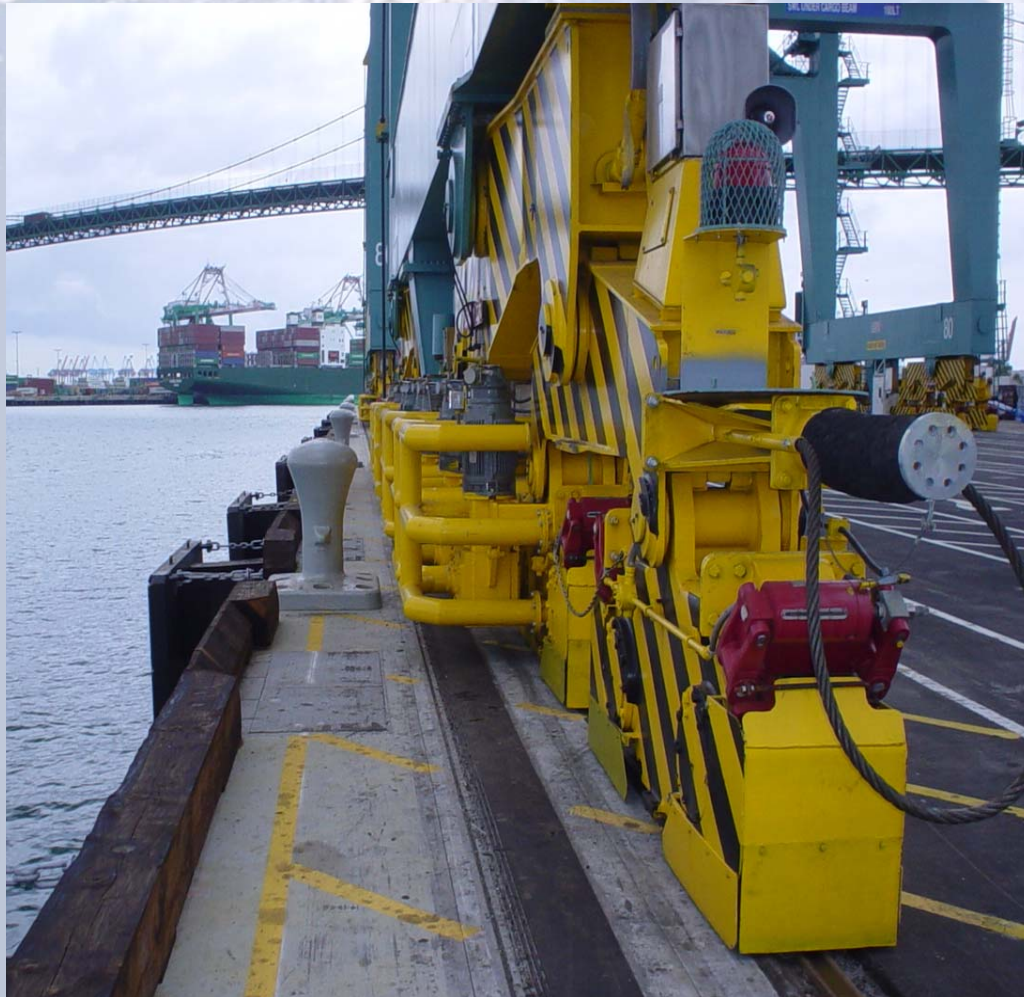




AMP Under Wharf Conduit



AMP Wharf Receptacle Box





AMP Box Construction





AMP Power Outlet Vault





AMP System Schedule



Task Name	2003													
	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Berth 100 AMP System														
Design start														
Bldg & Safety review														
Construction														
Order Utility Xmer														

Task Name	2004												2005				
	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
Berth 216 AMP System																	
Design start																	
Plancheck Appr.																	
Advertise & Bid																	
Construction																	
Utility I.S. Design																	
Utility I.S. Construction																	



AMP: The Future

PIER 400 (Phase II)

- AMP Power Vault constructed
- Conduit installed

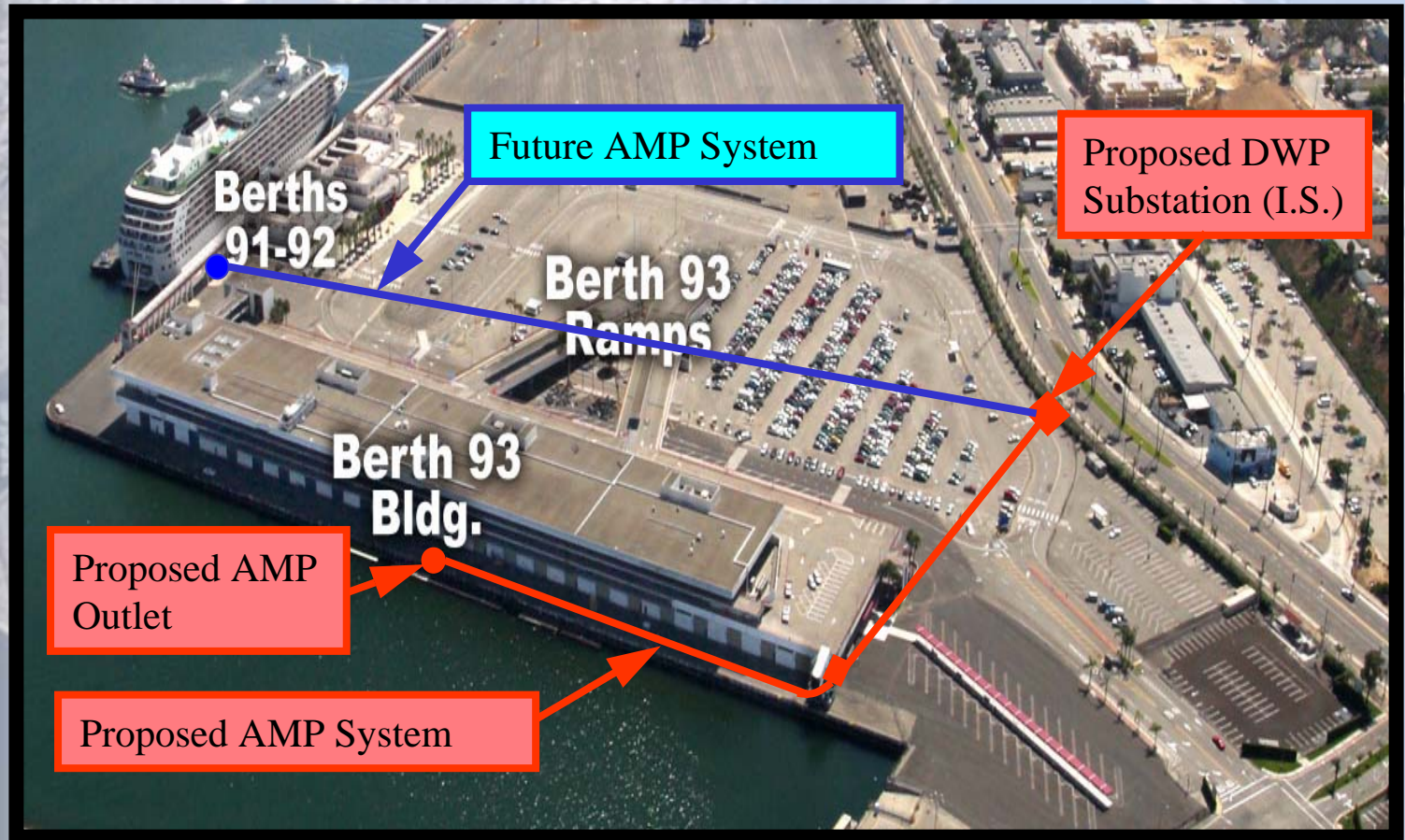
Berth 215 – 221

- Commenced AMP design
- M/V NYK Atlas AMP outfitted (arrived POLA on August 2004)





AMP Cruise Terminal





AMP Infrastructure Cost



	<u>Backland</u>	<u>Equipment</u>
• Berth 100:	\$6,800,000	\$1,000,000
• Berth 212-215:	\$2,500,000	
• Pier 400:	\$1,270,000	

Thank You.

